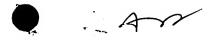


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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/047,332	01/14/2002	Ee Hong Kwek	04939P020	7052
5073	10/09/2003		EXAM	INER
BAKER BOTTS L.L.P.			KINKEAD, ARNOLD M	
2001 ROSS AVENUE SUITE 600			ART UNIT	PAPER NUMBER
DALLAS, TX 75201-2980			2817	

DATE MAILED: 10/09/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
. Office A. C O	10/047,332	KWEK ET AL.				
Office Action Summary	Examiner	Art Unit				
	Arnold M Kinkead	2817				
The MAILING DATE of this communication a Period for Reply	ppears n the c ver sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If the period for reply specified above is less than thirty (30) days, a relif NO period for reply is specified above, the maximum statutory perior Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b). Status	1. 1.136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) days of will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 16	<u>5 July 2003</u> .					
2a) ☐ This action is FINAL . 2b) ☑ 1	This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4) ☐ Claim(s) 1-27 is/are pending in the application	on					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	awn nom consideration.					
6)⊠ Claim(s) <u>1,8,12,19 and 23</u> is/are rejected.						
7)⊠ Claim(s) <u>2-7,9-11,13-18,20-22,24,26 and 27</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)☐ All b)☐ Some * c)☐ None of:						
1. Certified copies of the priority docume	nts have been received.					
2. Certified copies of the priority docume	nts have been received in Applicati	on No				
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) The translation of the foreign language provisional application has been received.						
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) 🔲 Notice of Informâl F	(PTO-413) Paper No(s) Patent Application (PTO-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claims 1,8, 23, and 25 are rejected under 35 U.S.C. 102(b) as being anticipated by Weaver et al(US 4,736,169).

The reference by Weaver et al discloses a VCO, see figure 1, that includes a varible capacitance(Vcoarse) providing a plurality of capacitance values that may correspond to a particular frequency band of operation. Note in col. 6- col. 7, there is a desire to have a linear frequency/voltage characteristic and thus the capacitors 26,28 and 32 are chosen so as to allow for more linearization of the frequency/voltage characteristic. Capacitor 28 serving as a DC blocking capacitance as well as linearizing element. Dampening resistors 34,36 are shown. A varactor for fine tuning is shown(26). The method steps being inherent.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- Claims 12, and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Weaver et al(US 4,736,169).

The reference by Weaver et al discloses a VCO, see figure 1, that includes a varible capacitance(Vcoarse) providing a plurality of capacitance values that may correspond to a particular frequency band of operation. Note in col. 6- col. 7, there is a desire to have a linear frequency/voltage characteristic and thus the capacitors 26,28 and 32 are chosen so as to allow for more linearization of the frequency/voltage characteristic. Capacitor 28 serving as a DC blocking capacitance as well as linearizing element. Dampening resistors 34,36 are shown. A varactor for fine tuning is shown(26). The method steps being inherent.

The reference by Weaver et al does not the details of the conventional PLL loop elements, namely, the phase comparator, charge pump, loop filter, and fractional divider, however, these are notoriously well known loop elements, that for the PLL and serve to drive the VCO output to lock onto a reference frequency. Official notice is taken with respect to the loop elements.

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In light of the above, one of ordinary skill in the art would have recognized that the VCO is part of a PLL and that the conventional loop elements serve to lock the VCO output to the reference clock signal as desired.

Allowable Subject Matter

6. Claims 2-11, 13-18, 20-22, and 24, and 26-27 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

7. Applicant's arguments with respect to claims 1,8, 12,19, and 23 have been considered but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arnold M Kinkead whose telephone number is 703-305-3486. The examiner can normally be reached on Mon-Fri, 8:30 am -5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on 703-308-4909. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

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Arnold M Kinkead Primary Examiner Art Unit 2817

Arnold Kinkead Sept. 30, 2003 afulus